	PCT/JP03/09858		
A. CLASSIFICATION OF SUBJECT MATTER- Int.Cl ⁷ D04H3/0 B65H51/005		1	
According to International Patent Classification (IPC) or to both n	estional classification and IPC		
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed Int.Cl ⁷ D04H1/00-18/00, D02J1/18,	D01D11/02, B65H51/005		
Kokai Jitsuyo Shinan Koho 1926-1996 Kokai Jitsuyo Shinan Koho 1971-2003			
WPIL	ne of data base and, where practicable, search	ı ternis used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category Citation of document, with indication, where a		Relevant to claim No.	
X EP 0837162 A (Fukui Prefectu A 22 April, 1998 (22.04.98), Full text; Figs. 2 to 3 & US 6032342 A & WO	ore),	1 2-33	
X JP 11-200136 A (Toray Indust 27 July, 1999 (27.07.99), Full text; Figs. 1 to 4 (Family: none)	eries, Inc.),	1 2-33	
A JP 11-172562 A (Fukui-Ken), 29 June, 1999 (29.06.99), Full text; Figs. 1 to 7 (Family: none)		1-33	
Further documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the priociple or theory underlying the invention document of particular relevance; the claimed invention cannot is easy when the document is taken alone occurrent of particular relevance; the claimed invention cannot is easy when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published after the international filing date or priority date and not in conflict with the application but cited to understand the priociple or theory underlying the invention document of particular relevance; the claimed invention cannot is tep when the document is taken alone occurrent of particular relevance; the claimed invention cannot in conflict with the application but cited to understand the priociple or theory underlying the invention document of particular relevance; the claimed invention cannot in conflict with the application but cited to understand the priociple or theory underlying the invention document of particular relevance; the claimed invention cannot in considered to involve an inventive step when the document is expected to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is document of particular relevance; the claimed invention considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention considered to involve an inventive step when the document is attent and the priority date and not in conflict with the application of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considere		application but cited to ying the invention imed invention cannot be to involve an inventive imed invention cannot be then the document is occuments, such cilled in the an ally	
Name and mailing address of the ISA/ Japanese Patent Office	09 December, 2003 (0	9.12.03)	

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Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/09858

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 50-121568 A (Mitsubishi Rayon Co., Ltd.), 23 September, 1975 (23.09.75), Full text; Figs. 1 to 3 (Family: none)	7,8
A	<pre>JP 5-247716 A (Tonen Corp.), 24 September, 1993 (24.09.93), Full text; Figs. 1, 2 (Family: none)</pre>	32,33
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